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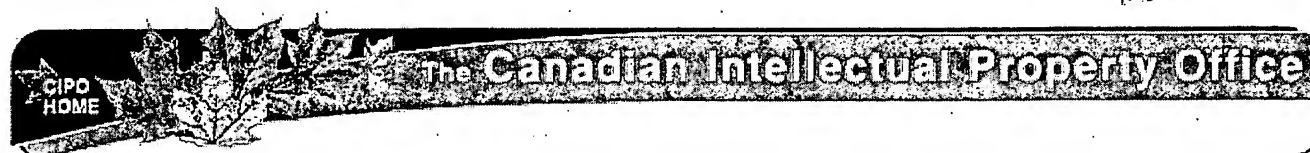
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(12) Patent Application:

(11) CA 2299205

(54) SUPER-OXYGENATED WATER SOLUTIONS AND METHODS OF USE

(54) SOLUTIONS AQUEUSES SUPER-OXYGENEES ET METHODES D'UTILISATION

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ABSTRACT:

The invention relates to medicinal solutions containing super-oxygenated water having a concentration of dissolved oxygen greater than 9.5 milligrams per litre and methods of their use in medical treatment and disinfection. Super-oxygenated water serves to deliver increased concentrations of oxygen intravenously, topically, or through ingestion to the bloodstream, body cells and tissue surfaces to which it is exposed. Bacteria exposed to super-oxygenated water are killed through the oxidation of the polysaccharide cell walls of the bacterial organism. Such solutions act as a disinfectant or preservative during transport of human transplant organs and tissue. The aqueous super-oxygenated solution can be frozen and used as packing ice to simultaneously: cool tissues; disinfect tissues; and provide oxygen through osmosis thereby inhibiting bacterial growth and slowing tissue deterioration. Topical application of super-oxygenated water solutions can increase the delivery of oxygen to exposed surfaces through osmosis. Topical application is useful for immersing or wrapping burned or wounded tissues or the entire body, and promoting faster healing of soft tissues, abrasions, sprains and burns. Topical application in mouth areas can disinfect and increase oxygen delivery in the treatment of gum disease, oral infections and dental infections. Ingestion of super-oxygenated solutions increases the delivery of oxygen to the blood and cells of the body increasing the blood oxygen content and elevating the partial pressure of oxygen in the blood. Intravenous injection of super-oxygenated water as a component of saline or Ringers solutions likewise increases the blood oxygen content and elevates the partial pressure of oxygen in the blood as well as enhancing the uptake of electrolytes, salts and minerals. Targeting specific areas of the body for application of super-oxygenated water is used in the treatment of anaerobic tumours and, heart attacks and brain disorders. Cells of anaerobic tumours are killed or have their rapid growth impeded through exposure to elevated oxygen concentrations. Brain disorder and heart attack effected tissues benefit from elevated oxygen concentrations on targeted exposure to super-oxygenated water solutions.

CLAIMS: [Show all claims](#)

*** Note: Data on abstracts and claims is shown in the official language in which it was submitted.

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60/123,477	United States	Mar. 9, 1999

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N/A

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English

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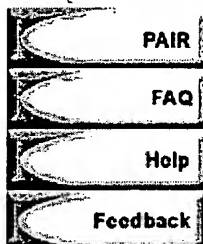
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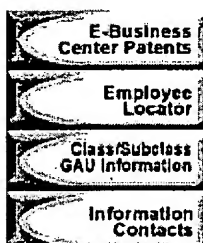
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